

Amendments to the Specification:

Please replace paragraphs [0012] and [0013] with the following paragraphs.

[0012] FIG. 1 schematically depicts an example of one embodiment of a storage system 100 for the extracorporeal storage of organs. The storage system comprises a transparent organ perfusion chamber 1. The organ perfusion chamber is hermetically sealed against fluid and pressure with quick-release fasteners (not shown). In this embodiment, an organ 2 is stored at normothermal temperature in a storage fluid 4. The organ 2 shown in the illustration is a liver, but it is understood that the term organ is used herein broadly to refer to internal organs, as well as limbs, tissue lobes, and the like. As shown, a protective cover 21 within the organ perfusion chamber 1 receives and covers the organ 2, effectively protecting it from the storage fluid 4, yet allowing exposure to a vitality-preserving circulation system 5. This vitality-preserving circulation system 5 sub-systems that include a dialysate circulation system 51 and a perfusate circulation system 52, which supplies the extracorporeal organ. The perfusate circulation system 52 connects to the major hepatic blood veins and arteries and the dialysate circulation system 51 has an inlet and outlet to the organ perfusion chamber 1. The protective cover 21 is, for example, an impermeable, transparent plastic bag.